

What is Claimed Is:

1 1. A system for converting and retrofitting a bicycle wheel having a tire with an inner cavity
2 engaged to a rim with an inner channel, comprising:
3 a strip of rim tape disposed within said channel;
4 a strip of sealing tape disposed within said channel, wherein said sealing tape completely
5 covers said rim tape; and
6 a liquid sealing compound disposed within said channel and said cavity.

1 2. The system of claim 1, wherein said sealing compound comprises:

2 about 3 parts by volume liquid latex;
3 about 7 parts by volume water; and
4 about 6 parts by volume propylene glycol.

1 3. The system of claim 1 further comprising a valve stem inserted through a predetermined
2 portion of said rim tape, said sealing tape, and said rim tape.

1 4. The system of claim 2, wherein said sealing compound further comprises about .25 parts by
2 volume of an aggregate material.

1 5. The system of claim 4, wherein said aggregate material comprises particles ranging in
2 diameter from about 0.15 millimeters to about 0.60 millimeters.

1 11. A method for converting and retrofitting a bicycle wheel having a rim with a channel and
2 opposing first and second ridges and a tire with a cavity and first and second opposing beads,
3 comprising the steps of:
4 positioning a strip of sealing tape in said channel;
5 engaging said first bead with said first ridge;
6 injecting a predetermined amount of a sealing compound into said channel and said
7 cavity; and
8 engaging said second bead with said second ridge.

10 12. The method of claim 11, further comprising installing a valve stem through said rim tape and
11 said rim.

13 13. The method of claim 11, further comprising inflating said tire and installing said tire on a
14 bicycle.

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1 14. A system for converting and retrofitting a bicycle wheel having a tire with an inner cavity
2 and opposing first and second beads engaged to a rim with an inner channel and first and second
3 opposing ridges, said system comprising:

4 a rim strip having first and second outer edges separated by a median portion disposed
5 within said channel, wherein said first and second outer edges engage said first and second beads
6 and said first and second ridges;

7 a valve stem integrally formed with said rim strip and having a hole formed therethrough
8 which is in communication with said inner cavity; and

9 a liquid sealing compound disposed within said channel and said cavity.

10 15. The system of claim 14, wherein the said first and second outer edges are thicker in cross-
11 section than said median portion of said rim strip.

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